

CLAIMS

1. An Internet packet (IP) mobile wireless communication system, comprising:

at least one network operation center (NOC) including at least one application component; and

plural link terminals communicating with plural client devices and receiving IP packets therefrom in respective sessions, at least some IP packets being associated with information unique to the session, each session being associated with a unique shared secret between a client device and a link terminal communicating therewith, the information being useful in providing data from the application component in IP packet format from the NOC to a client device moving relative to the link terminals by providing at least one IP packetized data stream to the client device using a first link terminal and then continuing to provide the data stream to the client device from a second link terminal as the client device moves.

2. The system of Claim 1, further comprising a respective data center incorporating each link terminal.

3. The system of Claim 2, further comprising logic at at least one local link terminal for generating the shared secret.

4. The system of Claim 3, wherein the information is at least one session name, and the session name is generated by the local link terminal.

5. The system of Claim 2, further comprising a respective base station associated with each data center.

6. The system of Claim 4, further comprising logic at the local link terminal for stripping the session name from messages from a client device.

7. The system of Claim 1, wherein a location of at least one client device is tracked and subscription services provided thereto based at least partially on the location.

8. The system of Claim 1, wherein each client device includes a directional antenna and an IP transceiver electrically coupled to the antenna for communicating with at least one link terminal.

9. The system of Claim 1, wherein the system has a data transmission rate between a client device and a link terminal in excess of one megabyte per second.

10. A mobile wireless IP-based communication network for providing up to the minute subscription services to client devices, comprising:

at least one network operation center (NOC); and
plural base stations communicating with the NOC and in wireless
communication with client devices communicating with the network, the
NOC providing at least one subscription service in IP format to at least one
client device via at least one base station in at least one session, the base
station receiving messages including IP packets and at least one unique
session name from at least one client device, the messages being
encrypted with a shared secret, the network permitting the client device to
roam around the network in the midst of the session substantially without
interruption thereof.

11. The network of Claim 10, wherein a location of at least one client
device is tracked and subscription services provided thereto based at least
partially on the location.

12. The network of Claim 10, wherein the network has a data
transmission rate between a client device and a base station in excess of one
megabyte per second.

13. The network of Claim 10, wherein each base station is associated
with a respective data center incorporating a respective link terminal, the link
terminals communicating with the client devices and receiving IP packets
therefrom in respective sessions, such that at least one IP packetized data stream

can be provided to a client device using a first link terminal and then provision of the data stream to the client device can be undertaken from a second link terminal as the client device moves.

14. The network of Claim 13, wherein the session names and shared secrets are generated by the link terminals.

15. The network of Claim 13, wherein a link terminal strips the session name from messages from a client device.

16. The network of Claim 10, wherein a location of at least one client device is tracked and subscription services provided thereto based at least partially on the location.

17. The network of Claim 10, wherein each client device includes a directional antenna and an IP transceiver electrically coupled to the antenna for communicating with at least one base station.

18. A method for providing subscription services to client devices via a wireless IP network, comprising:

sending at least one IP-packetized data stream to at least a first link terminal;

providing the data stream to at least one wireless client device in wireless IP communication with the first link terminal; and

as the client device moves away from the first link terminal toward a second link terminal, handing off the data stream from the first link terminal to the second link terminal, such that the data stream is provided to the client device via the second link terminal.

19. The method of Claim 18, wherein the data stream is associated with a session and the method includes associating the session with a unique session name generated by the first link terminal.

20. The method of Claim 19, further comprising encrypting at least portions of the session using a unique session shared secret generated by the first link terminal.

21. The method of Claim 20, further comprising stripping away the session name at the first or second link terminal from messages received from the client device.

22. The method of Claim 18, further comprising providing the data stream at a transfer rate of in excess of one megabyte per second.

23. The method of Claim 18, wherein the data stream is at least one subscription service.

24. The method of Claim 23, wherein the service contains information tailored to the location of the client device.

25. The method of Claim 20, wherein the session name and shared secret are sent to the client device and stored thereat.

26. The method of Claim 18, further comprising generating accounting data associated with the client device based on a number of IP packets provided thereto, or a time period the client device communicated with the link terminals, or both.

27. The system of Claim 1, further comprising generating accounting data associated with the client device based on a number of IP packets provided thereto, or a time period the client device communicated with the system, or both.

28. The network of Claim 10, further comprising generating accounting data associated with the client device based on a number of IP packets provided thereto, or a time period the client device communicated with the network, or both.

29. The system of Claim 4, wherein the session name and shared secret are sent to the client device and stored thereat.

30. The network of Claim 10, wherein the session name and shared secret are sent to the client device and stored thereat.